	Application No.	Applicant(a)
Notice of Allowability	Application No.	Applicant(s)
	10/039,821	SUTULA, DANIEL P.
	Examiner	Art Unit
	Charles R. Kasenge	2125
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>communication filed 10/16/06</u> .		
2. ☑ The allowed claim(s) is/are <u>1-18</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF		
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of 		
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E Maka Mira I	atant Application
1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P6. ☒ Interview Summary	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🖂 Interview Summary Paper No./Mail Dat	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛭 Examiner's Amendn	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	nt of Reasons for Allowance
5. 215.0g.000,	9. Other	
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Application/Control Number: 10/039,821 Page 2

Art Unit: 2125

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel P. Sutula Jr. on 11/16/06.

2. The application has been amended as follows:

a. Claim 1:

A method enabling the precise creation, fitting, and reproduction of objects, comprising the steps of:

- 1) defining a single 2-dimensional profile representation of an object;
- 2) measuring values from the object and defining a sufficient number of parametric values, comprising angular dimensions and/or linear dimensions and/or point coordinates, wherein the sufficient number of parametric values are derived from the measured values and characterize how the object changes in cross-section in 3-dimensional space with respect to the 2-dimensional profile of step 1;
- 3) converting the profile and parametric values into an electronic format suitable for input to computer aided design and manufacturing (CAD/CAM) programs;
- 4) creating a virtual CAD model from the profile and parametric values;

Application/Control Number: 10/039,821

Art Unit: 2125

- 5) calculating Numerical Control (NC) motion commands from the CAD model using CAM technology;
- 6) processing an object using Computer Numerical Controlled (CNC) machine; and,
- 7) transmitting data throughout the process, enabling theses steps to be conducted at any combination of geographic locations.

b. In Claim 7, line 2:

i. In line 2, Delete "that may be"

c. In Claim 8, lines 2-3:

ii. In lines 2-3, Replace "profile parameter values can be" with --profile and parametric values are--

d. In Claim 9, line 1:

iii. In lines 1, Replace "converting profile and parametric" with --converting the profile and parametric--

e. In Claim 10, line 2:

iv. In line 2, Replace "and or" with --and/or--

f. Claim 18:

Application/Control Number: 10/039,821

Art Unit: 2125

Page 4

An apparatus enabling the precise creation, fitting, and reproduction of objects, comprising:

- 1) a means of defining a 2-dimensional profile representation of an object's edges;
- 2) a means of measuring values from the object and defining a sufficient number of parametric values, comprising angular dimensions and/or linear dimensions and/or point coordinates, wherein the sufficient number of parametric values are derived from the measured values and characterize how the object changes in cross-section in 3-dimensional space with respect to the 2-dimensional profile of step 1;
- 3) a means of converting the profile and parametric values into an electronic format suitable for input to computer aided design and manufacturing (CAD/CAM) programs;
- 4) a means of creating a virtual CAD model from the profile and parametric values;
- 5) a means of calculating Numerical Control (NC) motion commands from the CAD model using CAM technology;
- 6) a means of processing an object using Computer Numerical Controlled (CNC) machine; and,
- 7) a means of transmitting data throughout the process, enabling theses steps to be conducted at any combination of geographic locations.

Art Unit: 2125

3. The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose measuring values from the object and defining a sufficient number of parametric values, comprising angular dimensions and/or linear dimensions and/or point coordinates, wherein the sufficient number of parametric values are derived from the measured values and characterize how the object changes in cross-section in 3-dimensional space with respect to the 2-dimensional profile of step 1. The allowability, at least in part, resides in this fact.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles R. Kasenge whose telephone number is 571 272-3743. The examiner can normally be reached on Monday through Friday, 8:30 - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on 571 272-3749. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/039,821

Art Unit: 2125

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CK

November 16, 2006

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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

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Page 6